

1. JP,3042659,U

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CLAIMS

[Utility model registration claim]

[Claim 1] The rotor which was made broader than spacing of the wheel of the right and left of said car body which dig up the sand of the sandbox by upcutting, a sordes, the dangerous substance, etc. into the car body of a two-flower self-propelled mode and which can be rotated, Carrying the sand which was made to rotate this rotor and was dug up, a sordes, the dangerous substance, etc., and doing sterilization and disinfection of And the conveyor of the network structure back conveyed while eliminating some sand, The network structure which collects sordes, the dangerous substance, etc. which eliminated sand further out of the sand conveyed by this conveyor, a sordes, the dangerous substance, etc., and remained, and is thrown away into other locations is active. A box, The height control which adjusts the depth of *****, such as sand with said rotor, a sordes, and the dangerous substance, is free. Cleaner for sandboxes characterized by having one piece or two or more small front wheels.

[Claim 2] The cleaner for sandboxes according to claim 1 which arranged suitably in spacing rotor covering which guides smoothly the sand which said rotor bottom was made to rotate this rotor, and was dug up, a sordes, the dangerous substance, etc., and carries them on a conveyor, and installed the scattering prevention plate which prevents that sand, a sordes, the dangerous substance, etc. disperse to the front free [die-length accommodation] in the front end of this rotor covering.

[Claim 3] The cleaner for sandboxes according to claim 1 which supported the hike rear lance drive gear case and the rotor free [rocking] in the vertical direction into said car body, arranged suitably ***** of several sheets of the transverse-plane abbreviation configuration for V characters in spacing in the direction of a periphery, and attached it in it free [attachment and detachment] at the peripheral face of this rotor.

[Translation done.]

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DETAILED DESCRIPTION

[Detailed explanation of a design]

[0001]

[The technical field to which a design belongs]

This design is called the so-called sand cleaner, cleans the dangerous substance, such as sordes, such as feces and urine of the dog and cat in the sandbox currently installed in the park, the nursery, the school, etc., and an empty can, plastics, a glass fragment, a stone, dust, and is related with the suitable cleaner for sandboxes to clean a sandbox finely.

[0002]

[Description of the Prior Art]

Bacteria with sordes, such as feces and urine of the dog and cat in the sandbox currently installed in current, the park, the nursery, the school, etc., and the *Ascaris lumbricoides* contamination When it is a big social problem on environmental sanitation and goes especially into human being's inside of the body, generation of heat, Many the *Toxocara* nematode eggs and noxious insects leading to muscular pain, nutritional disorder, and the paropsis which are the *Ascaris lumbricoides* egg of dog and cat were discovered from sandboxes, such as a park, a nursery, and a school, and there was a problem which can be and cannot play the dangerous substance, such as an empty can, plastics, a glass fragment, a stone, and dust, in comfort to it in a sandbox. Therefore, the method of machines, such as cleaning of a sandbox, and sterilization, disinfection, performing sterilization and disinfection by the antibacterial or the flame method, and taking out sand once and moreover, performing it from a sandbox, has been taken until now. Moreover, the beach cleaner which collected dust in the container while the dust of beaches, such as a beach, was dipped up with sand and the comb conveyor eliminated sand (for example, the publication-number No. 153104 [two to] official report).

[0003]

[Problem(s) to be Solved by the Device]

however, carry out the conventional former for performing sterilization and disinfection by the antibacterial or the flame method -- a machine is large-sized, and from a sandbox, sand is taken out once and performed, on the other hand, since the conventional latter was a beach cleaner which cleans beaches, such as a beach, all had the troublesome activity and it was not able to use them by the woman who it not only cannot use it in a small sandbox, but is weak. It had the fault which the costs of sandbox cleaning attach [that a machine is large-sized and that an activity is troublesome] remarkably highly conjointly. It was unsuitable for sandboxes, such as a park of which the latter beach cleaner collects the dust of a beach to it, and sterilization and disinfection are required at it, a nursery, and a school.

[0004]

Then, the technical problem of this design was thought out in view of the above viewpoints, plans miniaturization and ease of an activity, and the woman who it not only enables it to use it even in a sandbox small not to mention a big sandbox, but is weak also enables it to use it, and it is to be able to make the costs of sandbox cleaning remarkably cheap, and provide it with the optimal cleaner for sandboxes for sandboxes, such as a park, a nursery, and a school.

[0005]

[Means for Solving the Problem]

The rotor which was made broader than spacing of the wheel of the right and left of said car body which dig up the sand of the sandbox by upcutting, a sordes, the dangerous substance, etc. into the car body of a two-flower self-propelled mode in order that the cleaner for sandboxes of this design may solve the above technical problems and which can be rotated, Carrying the sand which was made to rotate this rotor and was

dug up, a sordes, the dangerous substance, etc., and doing sterilization and disinfection of And the conveyor of the network structure back conveyed while eliminating some sand, The network structure which collects sordes, the dangerous substance, etc. which eliminated sand further out of the sand conveyed by this conveyor, a sordes, the dangerous substance, etc., and remained, and is thrown away into other locations is active. A box, The height control which adjusts the depth of *****, such as sand with said rotor, a sordes, and the dangerous substance, is free. It has one piece or two or more small front wheels.

[0006]

Moreover, rotor covering which guides smoothly the sand which said rotor bottom was made to rotate this rotor, and was dug up, a sordes, the dangerous substance, etc., and carries them on a conveyor is suitably arranged in spacing, and the scattering prevention plate which prevents that sand, a sordes, the dangerous substance, etc. disperse to the front is installed in the front end of this rotor covering free [die-length accommodation].

[0007]

At it, a hike rear lance drive gear case and a rotor are supported free [rocking] in the vertical direction into said car body, and ***** of several sheets of the transverse-plane abbreviation configuration for V characters is suitably arranged in spacing in the direction of a periphery, and is attached in it free [attachment and detachment] at the peripheral face of this rotor.

[0008]

[The gestalt of implementation of a design]

The dangerous substance, such as sordes, such as feces and urine of the dog and cat in the sandbox currently installed in the park, the nursery, the school, etc., and an empty can, plastics, a glass fragment, a stone, dust, is hereafter cleaned as a gestalt of operation of this design, and the condition of cleaning a sandbox finely is explained based on a drawing.

[0009]

The rotor 3 which was made broader than spacing of the wheel 2 of the right and left of said car body 1 which dig up the sand of the sandbox by upcutting, a sordes, the dangerous substance, etc. into the car body 1 of a two-flower self-propelled mode as the cleaner for sandboxes of this design is shown in drawing 1 and drawing 2 and which can be rotated, Carrying the sand which was made to rotate this rotor 3 and was dug up, a sordes, the dangerous substance, etc., and doing sterilization and disinfection of And the conveyor 4 of the network structure back conveyed while eliminating some sand, The network structure which collects sordes, the dangerous substance, etc. which eliminated sand further out of the sand conveyed by this conveyor 4, a sordes, the dangerous substance, etc., and remained, and is thrown away into other locations is active. A box 5, The height control which adjusts the depth of *****, such as sand with said rotor 3, a sordes, and the dangerous substance, is free. It constitutes so that it may have one piece or two or more small front wheels 6.

[0010]

This machine is a two-flower self-propelled mode, and namely, the transit section by the wheel 2 of right and left on the backside and the rotor section with a rotor 3 In case the clutch which operates separately, respectively is attached and it is made to run the transit section In case operate clutch-lever 8b for transit attached in the right-hand side handle 7, and it is made to run through the transit section tension clutch 9 and is made to run the rotor section on the other hand It changes so that clutch-lever 8a for rotors of the left-hand side handle 7 may be operated and rotation may be slowed down with said transit section through the rotor section tension clutch 10 or the counter gear within the counter gear case 11, and it is made to run in each wheel 2 of said transit section, so that inverse rotation may be carried out. In this case, vertical accommodation is attained so that an operator can work with an easy posture at the time of cleaning of a sandbox. In addition, the sign 12 in drawing is an engine and a sign 13 is a missions case.

[0011]

Moreover, said rotor 3 is broader than spacing of the wheel 2 of right and left of a car body 1, and can be rotated, and it arranges suitably ***** 14 of several sheets of the transverse-plane abbreviation configuration for V characters in spacing in the direction of a periphery to a peripheral face, and it is formed so that it may attach in the tie-down plate 15 of a L character configuration free [attachment and detachment] through screw ***** 16 grade. And said car body 1 supports the hike rear lance drive gear case 17 and the rotor 3 free [rocking to the vertical direction].

[0012]

The rotor covering 18 which guides smoothly the sand which this rotor 3 bottom was made to rotate this rotor 3, and was dug up, a sordes, the dangerous substance, etc., and carries them on a conveyor 4 is suitably

arranged in spacing, and it is installed by the front end of this rotor covering 18 free [die-length accommodation] so that the scattering prevention plate 19 made of rubber which prevents that sand, a sordes, the dangerous substance, etc. disperse to the front may be hung through the hanging metallic ornaments 20.

[0013]

It is easy to catch the sand which was installed in the shape of a front facing-down inclination, the outside peripheral face was made to rotate said rotor 3, was dug up, and was flown back, a sordes, the dangerous substance, etc., and suitably, the carrier basalia 21 of dozens of sheets arranges at spacing in the direction of a periphery at juxtaposition, and, as for said conveyor 4, is arranged in it to it so that sand, a sordes, the dangerous substance, etc. fall and may not fall. It is made for the drug solution fed from the drug solution tank 22 arranged on the posterior part of a car body 1 as a means to sterilize and disinfect the sand carried on this conveyor 4, a sordes, the dangerous substance, etc. to spray on sand, a sordes, the dangerous substance, etc. by the towage actuation with a string, or the press actuation with a push-button from the nozzle 23 of the adequate several individual arranged suitably at spacing at the conveyor 4 bottom.

[0014]

Furthermore, it is active, and the box 5 is a cash-drawer type, a sordes, the dangerous substance, etc. which remained in the interior can be taken out, and it can throw away into other locations easily, and said small front wheel 6 is formed free [height control] and free [spacing accommodation on either side] by **** actuation of the small handle 24.

[0015]

[Effect of the Device]

The rotor 3 which was made broader than spacing of the wheel 2 of the right and left of said car body 1 to which the cleaner for sandboxes of this design digs up the sand of the sandbox by upcutting, a sordes, the dangerous substance, etc. into the car body 1 of a two-flower self-propelled mode as mentioned above and which can be rotated, Carrying the sand which was made to rotate this rotor 3 and was dug up, a sordes, the dangerous substance, etc., and doing sterilization and disinfection of And the conveyor 4 of the network structure back conveyed while eliminating some sand, The network structure which collects sordes, the dangerous substance, etc. which eliminated sand further out of the sand conveyed by this conveyor 4, a sordes, the dangerous substance, etc., and remained, and is thrown away into other locations is active. A box 5, The height control which adjusts the depth of *****, such as sand with said rotor 3, a sordes, and the dangerous substance, is free. Since it had one piece or two or more small front wheels 6, at the time of cleaning of a sandbox While the sand of the sandbox by upcutting, a sordes, the dangerous substance, etc. are dug up, it is put on a conveyor 4 and sand, a sordes, the dangerous substance, etc. are sterilized and disinfected on this conveyor 4 by rotating a rotor 3, making it run this machine While some sand is eliminated, it is conveyed back, is active and goes into a box 5. And and here A sordes, the dangerous substance, etc. with which sand was further eliminated and remained out of sand, a sordes, the dangerous substance, etc. collect. Since it is good only by throwing away this sordes, the dangerous substance, etc. into other locations, Active that ease of an activity can be planned, and the car body 1 of a two-flower self-propelled mode -- a rotor 3 and a conveyor 4, since it is good only by having a box 5 and small front-wheel 6 grade That a miniaturization can be attained not only can use it conjointly even in a sandbox small not to mention a big sandbox, but a weak woman can also use it and it can make the costs of sandbox cleaning to it remarkably cheap.

[0016]

And since the spacing of the wheel 2 of the right and left which run back is narrower than the width of face of the rotor 3 which runs the front by having made it broader than spacing of the wheel 2 of right and left of a rotor 3 of a car body 1, That it can prevent that one wheel does not make it run the non-cleaned section (non-arable land), and this machine loses balance and by having made free height control of the small front wheel 6 It can plan ease of an activity conjointly further that the depth of *****, such as sand with a rotor 3, a sordes, and the dangerous substance, can be adjusted to arbitration.

[0017]

Moreover, the sand which said rotor 3 bottom was made to rotate this rotor 3, and was dug up, The rotor covering 18 which guides a sordes, the dangerous substance, etc. smoothly and carries them on a conveyor 4 is suitably arranged in spacing. To the front end of this rotor covering 18 That sand, a sordes, the dangerous substance, etc. disperse to the front by having installed the scattering prevention plate 19 to prevent free [die-length accommodation] The sounding of *****, such as sand with a rotor 3, a sordes, and the dangerous substance, is not [how] scrupulous, and on a conveyor 4, sand, a sordes, the dangerous

substance, etc. can guide smoothly the sand which it made rotate a rotor 3 and it not only can prevent dispersing to the front and the bottom, but was dug up, a sordes, the dangerous substance, etc., and can carry them.

[0018]

Since the hike rear lance drive gear case 17 and the rotor 3 were supported free [rocking] in the vertical direction into said car body 1 and a rotor 3 is fixable to it in the upper part, the thing acting as a failure at the time of transit can be eliminated to it, and transit of this machine on the street is easy for it. Moreover, since ***** 14 of several sheets was suitably arranged in spacing in the direction of a periphery and was attached in it free [attachment and detachment] at the peripheral face of a rotor 3, if worn-out ***** 14 can be exchanged easily and ***** 14 is changed for a brush, it can be used for cleaning. Furthermore, since each ***** 14 was fabricated in the transverse-plane abbreviation configuration for V characters and sand, a sordes, the dangerous substance, etc. can prevent dispersing to a longitudinal direction, sand, a sordes, the dangerous substance, etc. can be certainly put on the center section of the conveyor 4.

[0019]

Furthermore, the sand which was made to rotate a rotor 3 and was dug up, a sordes, the dangerous substance, etc. are put on a conveyor 4, and sterilization and in order to disinfect, it is the the best for sandboxes, such as a park, a nursery, and a school.

[Translation done.]

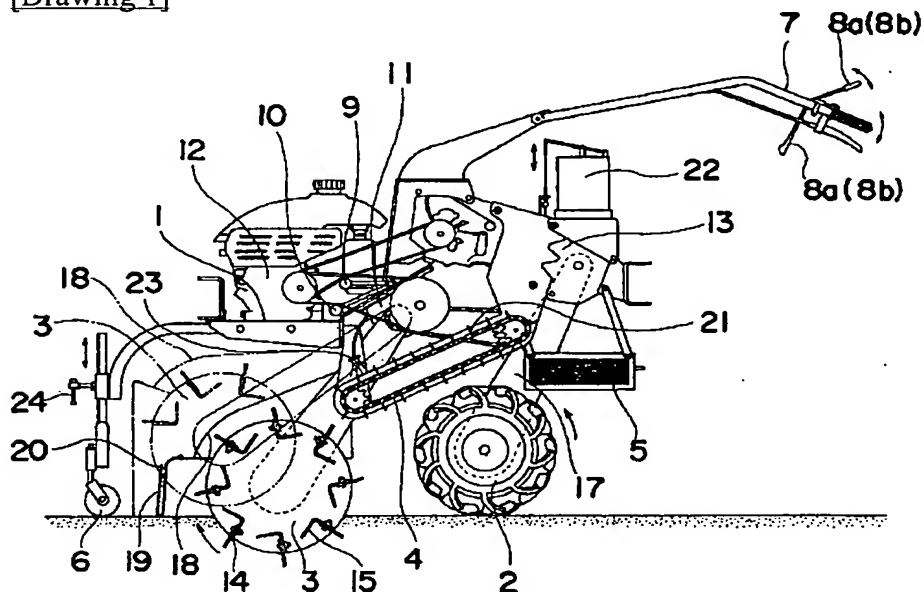
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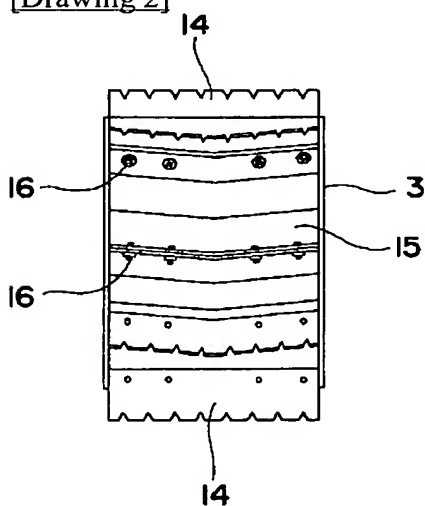
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DRAWINGS

[Drawing 1]



[Drawing 2]



[Translation done.]